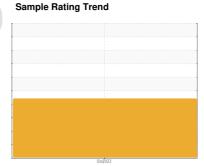


FUEL REPORT

ALLSTATE INSURANCE [148505] 79048064

Component **Diesel Fuel**

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)





DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Corrosion

{not applicable}

Contaminants

There is a light amount of silt (particulates < 14 microns in size) present in the fuel. Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

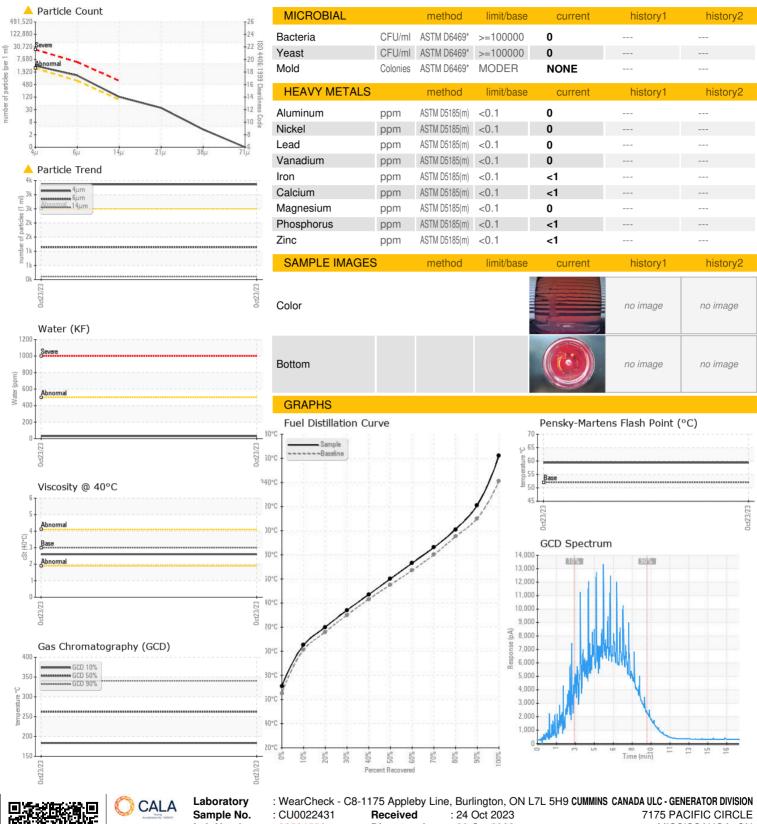
Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

i) (GAL)				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0022431		
Sample Date		Client Info		23 Oct 2023		
Machine Age	hrs	Client Info		329		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.841		
Fuel Color	text	Visual Screen*	Yllow	Orang		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	59.4		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	5		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	171		
5% Distillation Point	°C	ASTM D2887*		195		
10% Distill Point	°C	ASTM D2887*	201	205		
15% Distillation Point	°C	ASTM D2887*		213		
20% Distill Point	°C	ASTM D2887*	216	220		
30% Distill Point	°C	ASTM D2887*	230	234		
40% Distill Point	°C	ASTM D2887*	243	247		
50% Distill Point	°C	ASTM D2887*	255	260		
60% Distill Point	°C	ASTM D2887*	267	273		
70% Distill Point	°C	ASTM D2887*	280	286		
80% Distill Point	°C	ASTM D2887*	295	301		
85% Distillation Point	°C	ASTM D2887*		311		
90% Distill Point	°C	ASTM D2887*	310	321		
95% Distillation Point	°C	ASTM D2887*		339		
Final Boiling Point	°C	ASTM D2887*	341	362		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36		
Cetane Index		ASTM D4737*	<40.0	48		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)	< 0.1	<1		
Potassium	ppm	ASTM D5185(m)	<0.1	0		
Water	%	ASTM D6304*	< 0.05	0.003		
ppm Water	ppm	ASTM D6304*	<500	29.9		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ 3360		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14μm		ASTM D7647	>80	108		
Particles >21µm		ASTM D7647	>20	△ 32		
Particles >38µm		ASTM D7647	>4	3		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	19/17/14		



FUEL REPORT





ISO 17025:2017 Accredited Laboratory

Lab Number **Unique Number**

: 02591558 : 5668637

Diagnosed Diagnostician : Kevin Marson

: 30 Oct 2023

MISSISSAUGA, ON CA L5T 2A5

Test Package : FUEL (Additional Tests: Bacteria, CC Flash, GC-PercFuel, PrtCount)

elisia.johnson@cummins.com T: (905)795-0050

Contact: Elisia Johnson

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (905)795-9252